

Abstract

**DUAL-TARGETING COMPOUND AND PREPARATION METHOD
AND APPLICATION THEREOF**

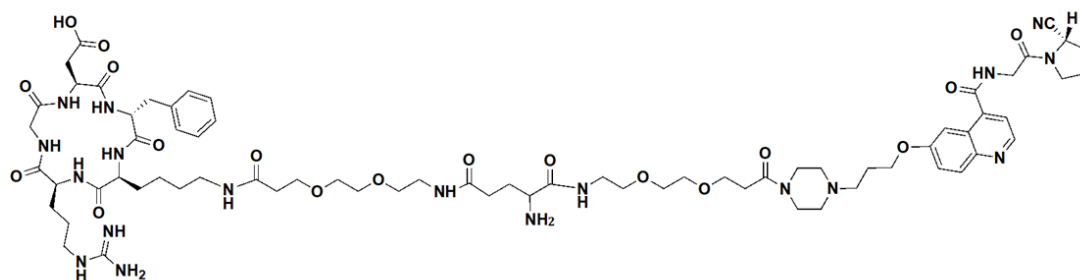
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The present disclosure relates to the fields of nuclear medicine and molecular imaging, and specifically relates to a dual-targeting compound and a preparation method and application thereof. The dual-targeting compound has the following structure shown in Formula (I). The present disclosure also provides a dual-targeting compound capable of being labeled with a radionuclide, and
10 the compound has the following structure shown in Formula (I-1) or Formula (I-2). The dual-targeting compound of the present disclosure has high affinity for an FAP target and an integrin $\alpha_v\beta_3$ target, can realize synergistic targeting of the FAP target and the integrin $\alpha_v\beta_3$ target in tumors, and has high uptake in tumors and long retention time in tumors. The present disclosure also provides a radionuclide labeled dual-targeting compound based on the dual-targeting compound, and a
15 preparation method and application thereof in preparation of medicines for diagnosis or therapy of diseases characterized by overexpression of FAP and/or integrin $\alpha_v\beta_3$.

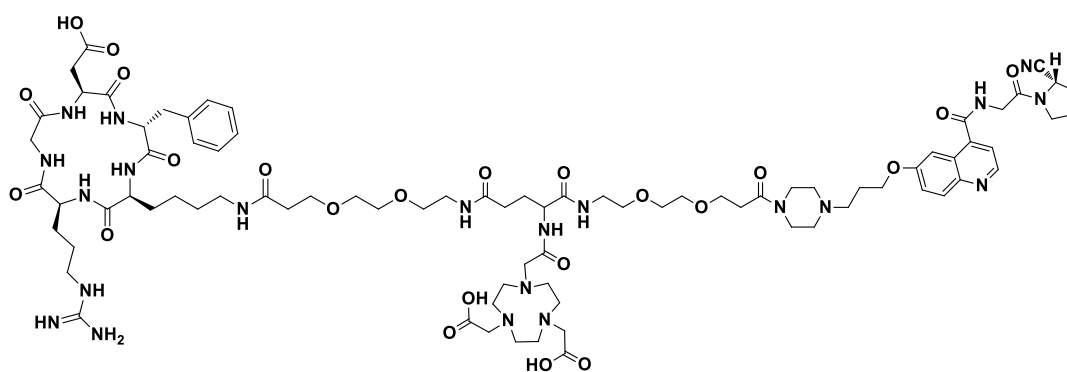
(FIG. 16)

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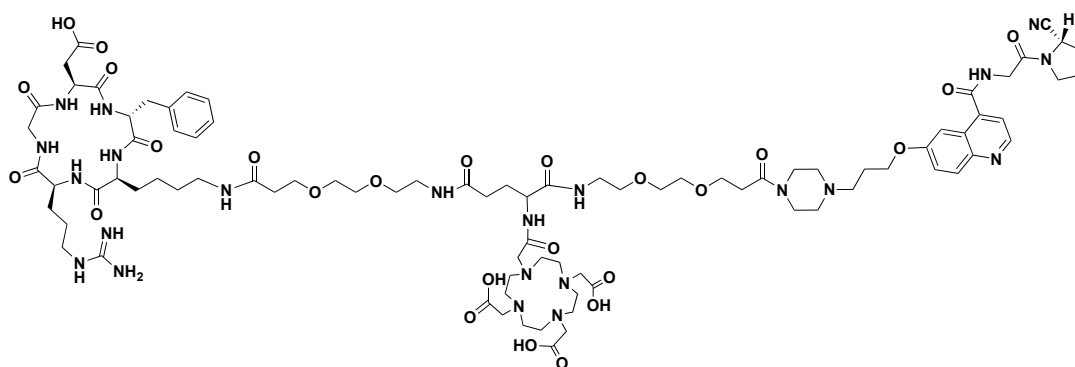
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(I)



Formula (I-1)



Formula (I-2)